

SECRET

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6 December 1955

MEMORANDUM FOR: [REDACTED]

SUBJECT : Turnaround Printer Requirements

1. It is presently anticipated that each mission will provide 3" F/L, 70 mm photography to be utilized in plotting the mission in the field. The turnaround printer described below will provide a rough mosaic of the area photographed. This rough mosaic would enable the PI and aids in the field to plot the mission more rapidly and more accurately than the mission could be plotted with present standard equipment, and the cost of the turnaround printer would be comparable to standard roll printers. The small scales of the 3" F/L photography and the poor quality maps available require a turnaround printer for most expeditious utilization. Consequently, the following information with regard to procurement and use of a turnaround printer is provided in response to verbal request of 5 December 1955.

2. General discussions were held with [REDACTED] of Reed Research, Incorporated, concerning the possible fabrication of a turnaround printer for 70 mm film. In the conversations it was stated that D/GP, [REDACTED] division, was interested in determining the feasibility and possible cost of procuring three 70 mm printers which would provide contact prints in normal flight sequence, resulting in a rough mosaic of the area and, at the rate of 500 per hour.

3. [REDACTED] believed it was feasible to make such a printer capable of printing either every frame or alternate frames, provide moderate light control and be semi-automatic in the sense of a single motion activating both paper and film. [REDACTED] gave an estimate as to cost of 5 - \$10,000 for the first printer with a second and third printer costing from \$1,000 to \$2,000 each, with an estimated time requirement of 90 to 120 days. This time element could be reduced with some increase in cost.

4. In order to provide approximately 500 prints per hour, it would require the use of a bromide paper, or a bromo-chloride. It would be possible to use Sonne photographic paper (a bromo-chloride) with a speed of slow projection paper. This printing paper costs \$16.50 for 9-3/8" x 200' rolls.

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5. Processing of the finished paper prints could be accomplished by use of USAF Type B-5 processor equipment (NAVY Stock No. N 180 163-120, Cost \$225) which is a standard military item. Such equipment requires very little space and only 110 V current.

Distribution:

142 - Addressee

344 - Ops

5 - Chrono

6 - Reading

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